VII. Abstract

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The Gauss-Rees waveform has many applications including use in a method for identifying an object, the method including the steps of: directing a primary acoustic waveform at the object to produce a nonlinear acoustic effect; receiving a secondary wavelet produced by the nonlinear effect; and processing the received secondary wavelet in identifying the object.

The object is identified by composition, image, and preferably both. The object can be concealed in a container, underground, under water, or otherwise.